

Accompanying Documents

1. Marked-up copies of the originally presented claims incorporating the amendments made herein (Appendix A).
2. Clean copies of the pending claims after incorporation of the amendments made herein (Appendix B).

AMENDMENT

In the Claims:

Please cancel claims 2 and 3 without prejudice or disclaimer.

Please amend claims 1 and 4 as follows:

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1. A biodetector for the detection of a selected substance, said biodetector comprising:

a signal converting element, comprising (i) an extracellular ligand-specific binding domain which specifically binds said selected substance, wherein said ligand-specific binding domain comprises an epitope-binding fragment of an antibody, and (ii) an intracellular signal transforming domain, wherein binding of said substance to said epitope-binding fragment of said ligand-specific binding domain activates said intracellular signal transforming domain providing an activated intracellular signal transforming domain;

a transducer, wherein (i) said transducer has an inactive form and an active form which are distinct from each other, and (ii) said activated intracellular signal transforming domain converts said inactive form of said transducer into said active form of said transducer;

a transcription control element, wherein expression mediated by said transcription control element is activated by said active form of said transducer; and